CLAIMS

- 1. A method in a network for wireless communications for
- 2 pushing data through a data packet network utilizing a dynamic
- 3 addressing scheme, comprising:
- transmitting, from a push server to a DNS, a look up signal
- 5 for a specified domain name;

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- transmitting, at the push server, the reserved dynamic IP
- 7 address to the push server; and
 - activating a context through the data packet network.
 - 2. The method of claim 1 further including the step of transmitting a reservation signal from the DNS to a DHCP server to prompt the DHCP to reserve a dynamic IP address for a mobile terminal that corresponds to the specified domain name.
 - 3. The method of claim 2 further including the step of transmitting a reserved dynamic IP address for a mobile terminal that corresponds to the specified domain name from the DHCP server to the DNS.
- 4. The method of claim 3 further including the step of transmitting the reserved dynamic IP address from the DNS to the push server after receiving a signal requesting that a dynamic
- 4 IP address be reserved.

- 5. The method of claim 5 wherein the received signal
- 2 requesting that a dynamic IP address be reserved is in the form
- 3 of a DNS lookup request signal.
- 1 6. The method of claim 1 wherein the step of activating a
- 2 context includes the step, in a GGSN, of receiving push data for
- 3 a mobile terminal and also receiving the reserved dynamic IP
- 4 address from the push server.

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- 7. The method of claim 6 further including the step of transmitting the reserved IP address to a DHCP server to obtain a mobile station ID.
- 8. The method of claim 8 further including the step of transmitting the received mobile station ID from the DHCP server to a home location register to determine the identity of a serving GPRS support node whereby the context activation is established with the identified serving GPRS support node.

- 9. A method in a Gateway GPRS Support Node for pushing
- 2 data through a data packet network utilizing a dynamic
- 3 addressing scheme, comprising:
- 4 receiving a reserved dynamic IP address and push data from
- 5 push server;

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- transmitting a request for ID information to a DHCP server
- 7 relating to the reserved dynamic IP address;
- 8 receiving the requested ID information; and
- activating a context through the data packet network so that the push data may be transmitted to its destination having the reserved dynamic IP address.
 - 10. The method of claim 9 further including the step of transmitting a request to an HLR to identify a serving GPRS support node that is presently serving the mobile terminal for which the reserved dynamic IP address was reserved and to which the requested ID information corresponds.
 - 1 11. The method of claim 10 further including the step of
 - 2 activating the context and transmitting the push data to the
 - 3 identified serving GPRS support node.

A gateway GPRS support node (GGSN), comprising:

circuitry for receiving push data in relation to a reserved dynamic IP address in a data packet network; and

circuitry for prompting a DHCP server to provide information that corresponds to the reserved dynamic IP address prior to a context being activated.

- The GGSN of claim 12 further including circuitry for 1 2 delaying the activation of context until the ID information is received from the DHCP server.
 - The GGSN of claim 12 further including circuitry for 14. generating a request to a home location register to request the identity of a serving GPRS support node that is presently supporting the destination mobile terminal for the push data.
 - The GGSN of claim 12 further including circuitry for 1 15. 2 delaying the activation of context until a response is received 3 from the home location register identifying the SGSN.

- 1 16. A domain name server, comprising:
- circuitry for receiving a domain name lookup request from a
- 3 push server to determine an IP address that corresponds to a
- 4 received domain name; and
- 5 circuitry for transmitting a request to a DHCP server to
- 6 prompt it to temporarily reserve a dynamic IP address for
- 7 delivery of push data to a mobile terminal.
 - 17. The domain name server of claim 16 further including circuitry for receiving a reserved dynamic IP address from the DHCP server that corresponds to the received domain name.
 - 18. The domain name server of claim 17 further including logic to generate the received reserved dynamic IP address to the push server.